



INFORMATION DISCLOSURE CITATION

IN AN APPLICATION (Use several sheets if necessary)

Docket Number 304142000201 Application Number To Be Assigned

Applicant

Malaya Chatterjee et al.

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Group Art Unit To Be Assigned

Form PTO-1449

JUL 1 8			U.S. PA	TENT DOCUMENTS			
Notials Notials	Reg	Date \	Document No.	Name	Class	Subclass	Filing Date If Appropriate
1120	1.	08/05/97	5,653,977	Saleh			
	2.	06/23/87	4,675,287	Reisfeld et al.			
	3.	09/15/87	4,693,966	Houghton et al.			
•	4.	02/02/88	4,722,840	Valenzuela et al.			
·	5.	07/18/89	4,849,509	Thurin et al.			
	6.	02/27/90	4,904,596\	Hakomori			
<b>Y</b>	7.	04/17/90	4,918,164	Hellstrom et al.			
	8.	04/23/91	5,009,995	Albino et al.			
	9.	10/01/91	5,053,224	Koprowski et al.			
	10.	10/15/91	5,057,540	Kensil et al.			
	11.	02/25/92	5,091,177	Hellstrom et al.			
	12.	04/07/92	5,102,663	Livingston et al			
-	13.	07/28/92	5,134,075	Hellstrom et al			
	14.	08/25/92	5,141,742	Brown et al.	) ) , , ,		
-	15.	05/04/93	5,208,146	Irie \	L/C	17/	
	16.	08/31/93	5,240,833	Nudelman et al.		1,0	
	17.	09/07/93	5,242,824	Hellstrom et al.			
	18.	12/14/93	5,270,202	Raychaudhuri			
	19.	05/03/94	5,308,614	Hakomori \			
	20.	06/25/96	5,529,922	Chapman et al.\			
	21.	11/05/96	5,571,900	Wiegand et al.			
	22.	03/18/97	5,612,030	Chatterjee et al.			

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### FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	23.	02/13/86	WO 86/00909	PCT			
	24.	05/16/90	0368131	Europe			
	25.	11/12/92	WO 92/19266	PCT			
•	26.	09/08/93	0280209	Europe			
	27.	08/04/94	WO 94/16731	PCT			
•	28.	10/13/94	WO 94/22479	PCT			·
	29.	02/16/95	WO 95/04548	PCT			
	30.	07/05/95	0661061	Europe			
	31.	12/21/95	WO 95/34638	PCT			
	32.	07/25/96	WO 96/22373	PCT			

## OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

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Examiner Initials	Ref. No.	Title
	33.	Derwent® Survey of EP 0368131 (05/16/90).
-	34.	1A7 Heavy Chain Protein Genbank Search.
	35.	1A7 Light Chain Protein Genbank Search.
	36.	1A7 Heavy Chain DNA Genbank Search.
	37.	1A7 Light Chain DNA Genbank Search.
	38.	Angeles et al., "Isoabzymes: Structurally and mechanistically similar catalytic antibodies from the same immunization" Biochemistry (1993) 32:12128-12135.
	39.	Bhattacharya-Chatterjee et al., "Anti-idiotype antibodies as potential therapeutic agents for human breast cancer" In Antigen and Antibody Molecular Engineering in Breast Cancer Diagnosis and Treatment, Conference on Breast Cancer Therapy Immunology, R.L. Ceriani (Ed.), Plenum Press, N.Y., pages 139-148, 1994.
	40.	Bhattacharya-Chatterjee et al., "Idiotype vaccines against human T cell acute lymphoblastic leukemia. I. Generation and characterization of biologically active monoclonal anti-idiotypes" J. Immunol. (1987) 139:1354-1360.
	41.	Bhattacharya-Chatterjee et al., "Idiotype vaccines against human T-cell leukemia" J. Immunol. (1988) 141:1398-1403.

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EEE		OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)
Examined Initials	Kef. No.	Title
	42.	Bhattacharya-Chatterjee et al., "Idiotypic antibody immunotherapy of cancer" Cancer Immunol. Immunother. (1994) 38:75-82.
	43.	Bhattacharya-Chatterjee et al., "Murine monoclonal anti-idiotype antibody as a potential network antigen for human carcinoembryonic antigen" J. Immunol. (1990) 145:2758-2765.
•	44.	Bhattacharya-Chatterjee et al., "Syngeneic monoclonal anti-idiotype antibodies against a monoclonal antibody to human melanoma associated antigen" J. Immunol. (1993) 150 142A (Abstract 805).
	45.	Bird et al., "Single-chain antigen-binding proteins" Science (1988) 242:423-426.
•	46.	Blier et al., "A limited number of B cell lineages generates the heterogeneity of a secondary immune response" J. Immunol. (1987) 139:3996-4006.
•	47.	Chakraborty et al., "Induction of human breast cancer-specific antibody responses in cynomolgus monkeys by a murine monoclonal anti-idiotype antibody" Cancer Res. (1995) 55:1525-1530.
	48.	Chapman et al., "Induction of IgG antibodies against G <sub>D3</sub> ganglioside in rabbits by an anti-idiotypic monoclonal antibody" <u>J. Clin. Invest.</u> (1991) <u>88</u> :186-192.
	49.	Charbonnier et al., "Structural convergence in the active sites of a family of catalytic antibodies" Science (1997) 275:1140-1142.
-	50.	Chattopadhyay et al., "Murine monoclonal anti-idiotope antibody breaks unresponsiveness and induces a specific antibody response to human melanoma-associated proteoglycan antigen in cynomolgus monkeys" Proc. Natl. Acad. Sci. USA (1992) 89:2684-2688.
	51.	Cheresh et al., "Biosynthesis and expression of the disialoganglioside G <sub>D2</sub> , a relevant target antigen on small cell lung carcinoma for monoclonal antibody-mediated cytolysis" <u>Cancer Res.</u> (1996) 46:5112-5118.
	52.	Cheresh et al., "Disialoganglioside $G_{D2}$ and $G_{D3}$ are involved in the attachment of human melanoma and neuroblastoma cells to extracellular matrix proteins" J. Cell. Biol. (1986) 102688-696.
	53.	Cheresh et al., "Disialoganglioside GD <sub>2</sub> distributes preferentially into substrate-associated microprocesses on human melanoma cells during their attachment to fibronectin" J. Cell. Biol. (1986) 102:1887-1897.
	54.	Cheresh et al., "Localization of the gangliosides $G_{D2}$ and $G_{D3}$ in adhesion plaques and on the surface of human melanoma cells" Proc. Natl. Sci. USA (1984) 81:5767-5771.
	55.	Cheung et al., "Antibody response to murine anti-G <sub>D2</sub> monoclonal antibodies: correlation with patient survival" Cancer Res. (1994) <u>54</u> :2228-2233.
· .	56.	Cheung et al., "Disialoganglioside G <sub>D2</sub> anti-idiotypic monoclonal antibodies" Int. J. Cancer (1993) 54:499-505.
	57.	Cheung et al., "Ganglioside G <sub>D2</sub> specific monoclonal antibody 3F8: a phase I study in patients with neuroblastoma and malignant melanoma" J. Clin. Oncol. (1987) 5(9):1430-1440.
		DATE CONCIDENCE.

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ETEL.	ato	OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)
Examiner Initials	Ref. No.	Title
	58.	Cochran et al., "In vitro mutagenesis of the promoter region for a vaccinia virus gene: evidence for tandem early and late regulatory signals" J. Virol. (1985) 54:30-37.
	59.	Conry et al., "A carcinoembryonic antigen polynucleotide vaccine has in vivo antitumor activity" Gene Therapy (1995) 2:59-65.
•	60.	Foon et al., "Immune response to the carcinoembryonic antigen in patients treated with an anti-idiotype antibody vaccine" J. Clin. Invest. (1995) 96:334-342.
•	61.	Foon et al., "Anti-idiotype antibodies: novel therapeutic approach to cancer therapy" Immunology Series (1994) 61:281-292.
- b	62.	Guo et al., "Mechanistically different catalytic antibodies obtained from immunization with a single transition-state analog" Proc. Natl. Acad. Sci. USA (1995) 92:1694-1698.
	63.	Hamilton et al., "Ganglioside expression on human malignant melanoma assessed by quantitative immune thin-layer chromatography" Int. J. Cancer (1993) 53:566-573.
	64.	Hamilton et al., "Ganglioside expression on sarcoma and small-cell lung carcinoma compared to tumors of neuroectodermal origin" Proc. Am. Assoc. Cancer Res. (1993) 34:491 (Abstract 2928).
	65.	Handgretinger et al., "A phase I study of neuroblastoma with the anti-ganglioside GD2 antibody 14G2a" Cancer Immunol. Immunother. (1992) 35:199-204.
-	66.	Hastings et al., "Production and characterization of a murine/human chimeric anti-idiotype antibody that mimics ganglioside" Cancer Res. (1992) 52:1681-1686.
	67.	Hawkins et al., "A genetic approach to idiotypic vaccination" J. Immunother. (1993) 14273-278.
	68.	Hawkins et al., "Plasmid vaccination against B-cell lymphoma" Cancer Gene Therapy (1994) 1(3):208.
	69.	Heidenheim et al., "CDw60, which identifies the acetylated form of G <sub>D3</sub> gangliosides, is strongly expressed in human basal cell carcinoma" Brit. J. Dermatol. (1995) 133:392-397.
	70.	Helling et al., "Ganglioside conjugate vaccines" Mol. Chem. Neuropath. (1994) 21:299-309.
	71.	Hruby et al., "Fine structure analysis and nucleotide sequence of the vaccinia virus thymidine kinase gene" Proc. Natl. Acad. Sci. USA (1983) 80:3411-3415.
	72.	Imclone Systems Incorporated Annual Report, 1995.
	73.	Irie et al., "Regression of cutaneous metastatic melanoma by intralesional injection with human monoclonal antibody to ganglioside GD2" Proc. Natl. Acad. Sci. USA (1986) 83:8694-8698.
	74.	Kanda et al., "Both V <sub>H</sub> and V <sub>L</sub> regions contribute to the antigenicity of anti-idiotypic antibody that mimics melanoma associated ganglioside GM <sub>3</sub> " Cell Biophys. (1994) 24/25:65-74.
**	75.	Kaufman et al., "A recombinant vaccinia virus expressing human carcinoembryonic antigen (CEA)" Int. J. Cancer (1991) 48:900-906.
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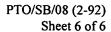
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Examiner Initials	RADE	OTHER D	OCUMENTS (includin	g author, title, Date, Pertinent Pages, Etc.)
Examiner	Ref.	Title		
Initials	110.			
	76.	Leahy et al., "Sequences of 12 monoc <u>Proc. Natl. Acad. Sci. USA</u> (1988) 85:		pel antibodies for NMR studies"
	77.	Livingston et al., "GD3/proteosome vaganglioside GD3" <u>Vaccine</u> (1993) <u>11</u> (		ntibodies against the
•	78.	Livingston, "Approaches to augmenting melanoma cells to ganglioside-KLH c		
•	79.	Mittelman et al., "Human high molecumimicry by mouse anti-idiotypic mone MAA immunity and prolongation of s Sci. USA (1992) 89:466-470.	oclonal antibody MK2-23: Indu	ction of humoral anti-HMW-
	80.	Mittelman et al., "Kinetics of the imm development of humoral anti-high mo patients with advanced malignant mel antibody MK2-23" Cancer Research (	lecular weight-melanoma associanoma immunized with mouse a	iated antigen immunity in three
	81.	Miyashita et al., "A common ancestry transition-state analog" Proc. Natl. Ac		
	82.	Moss, "Vaccinia virus: A tool for rese 1667.	arch and vaccine development"	Science (1991) 252:1662-
•	83.	Mujoo et al., "Disialoganglioside G <sub>D2</sub> of antibody-mediated cytolysis and supple		
	84.	Mujoo et al., "Functional properties ar tumors by isotype switch variants of n (1989) 49:2857-2861.		
	85.	Nahmias et al., "The immune response Extensive diversity of $V_H$ and $V_L$ general 140:1304-1311.		
	86.	Posnett et al., "A novel method for pro 263:1719-1725.	oducing anti-peptide antibodies"	J. Biol. Chem. (1988)
	87.	Qin et al., "Construction of recombina vaccine" Gene Therapy (1996) 3:59-60		1-CSF and its use as tumor
•	88.	Reininger et al., "Cryoglobulinemia in glomerulonephritis arise from distinct 87(24):10038-10042.		
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Examiner Initials	Ref. No.	Title
	89.	Russell et al., "Plasmid vaccination to elicit anti-idiotypic immune responses against surface immunoglobin-positive B-cell malignancies" Brit. J. Haematology (1994) 86(No. Suppl. 1):74 (Abstract P146).
	90.	Saleh et al., "Generation of a human anti-idiotypic antibody that mimics the GD2 antigen" J. Immunol. (1993) 151(6):3390-3398.
-	91.	Saleh et al., "Phase I trial of the murine monoclonal anti-G <sub>D2</sub> antibody 14G2a in metastatic melanoma" Cancer Res. (1992) 52:4342-4347.
•	92.	Seaver, "Monoclonal antibodies in industry: More difficult than originally thought" Genetic Engineering News (August 1994) pp. 10, 21.
	93.	Sen et al., "Induction of IgG antibodies by an anti-idiotype antibody mimicking disialoganglioside GD2" Galley Proof of article accepted for publication in <u>J. Immunother</u> . (1997), 9 pages total.
	94.	Sen et al., "Murine monoclonal antibody-idiotype antibody breaks tolerance and induces specific antibody response to human disialoganglioside GD2 in cynomolgus monkeys" Abstract presented at the 9th International Congress of Immunology, San Francisco, California, July 23-29, A5250, page 885, 1995.
•	95.	Sen et al., "Murine monoclonal anti-idiotype (Id) antibody induces specific humoral responses to the GD2 ganglioside in melanoma patients" Abstract submitted for AAAAI/AAI/CIS Joint Meeting, 1997.
•	96.	Spooner et al., "DNA vaccination for cancer treatment" Gene Therapy (1995) 2:173-180.
,	97.	Stenzel-Poore et al., "Clonal diversity, somatic mutation, and immune memory to phosphocholine-keyhole limpet hemocyanin" J. Immunol. (1989) 143:4123-4133.
	98.	Tam, "High-density multiple antigen-peptide system for preparation of antipeptide antibodies" Methods Enzymol. (1989) 168:7-15.
	99.	Tang et al., "Genetic immunization is a simple method for eliciting an immune response" Nature (1992) 356:152-154.
	100.	Tsuchida et al., "Gangliosides of human melanoma" J. Natl. Cancer Inst. (1987) 7845-54.
	101.	Wang et al., "Immunization by direct DNA inoculation induces rejection of tumor cell challenge". Human Gene Therapy (1995) 6:407-418.
	102.	Yamamoto et al., "Anti-idiotype monoclonal antibody carrying the internal image of ganglioside GM3" J. Natl. Cancer Inst. (1990) 82(22):1757-1760.

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